

Recovery Plan Action Status

Plan Name: Palos Verdes Blue Butterfly Recovery Plan

Plan Status: Final

Plan Date: 19-Jan-84

Lead Agency: USFWS

Lead Office: Carlsbad Fish And Wildlife Office

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431-9440)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	11	Preserve Franke Hesse memorial Park (FHMP) Colony	Ongoing Not Current			Los Angeles County Fire District, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: General	Labor type not yet selected	Site preserved but not occupied by PVB. Habitat restoration and reintroduction necessary to complete action.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	12	Preserve Agua Armaga Canyon (AAC) Colony	Ongoing Not Current			City of Palos Verdes Estates, California, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division	Work type not yet selected	Labor type not yet selected	Site preserved but not occupied by PVB. Habitat restoration and reintroduction necessary to complete action.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	13	Preserve Palos Verdes Drive East (PVDE) Colony	Ongoing Not Current			Los Angeles County Fire District, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, Private landowners	Work type not yet selected	Labor type not yet selected	Site preserved but not occupied by PVB. Habitat restoration and reintroduction necessary to complete action.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	14	Preserve Crest Road Colony	Not Started			Los Angeles County Fire District, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, Private landowners	Acquisition: General	Labor type not yet selected	

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Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	15	Preserve Portuguese Canyon Colony	Ongoing Not Current			Los Angeles County Fire District, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, Private landowners	Work type not yet selected	Labor type not yet selected	Site preserved but not occupied by PVB. Habitat restoration and reintroduction necessary to complete action.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	16	Preserve Phantom Drive Colony	Complete			Los Angeles County Fire District, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, Private landowners	Work type not yet selected	Labor type not yet selected	Site preserved but not occupied by PVB
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	17	Preserve San Pedro Hill Colony	Not Started			Los Angeles County Fire District, U.S. Fish and Wildlife Service, Endangered Species Division, United States Air Force	Acquisition: General	Labor type not yet selected	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	2	18	Survey additional sites on Palos Verde's Peninsula for presence of Astragalus and PVBB populations	Ongoing Current	Prior to FY 1995		California Coastal Conservancy, City of Palos Verdes Estates, California, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game, United States Air Force	Research: Population Surveys	Contract	The Palos Verdes Peninsula Land Conservancy surveyed for host plants throughout the City of Rancho Palos Verdes in 2006
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	2	211	Remove undesirable exotic plants for PVBB habitats	Ongoing Current	FY 1995 - FY 1999		City of Palos Verdes Estates, California, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Contract	The Palos Verdes Peninsula Land Conservancy is managing habitat within the City of Rancho Palos Verdes consistent with the City's draft NCCP/HCP.

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Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	2	2121	Determine propagation techniques for larval foodplants	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Propagation	Species Expert	
Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	2	2122	Determine the most ecologically compatible and most cost-effective techniques for habitat improvement	Ongoing Current	FY 1995 - FY 1999		California Coastal Conservancy, California Coastal Commission, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Management Techniques	Contract, Species Expert	
Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	2	213	Determine physical and climatic factors of habitat sites and relate to improvement actions	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Contract, Species Expert	
Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	1	22	Conduct additional research on PVBB autecology	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Demographic Studies, Research: Habitat Requirements, Research: Population Surveys	Contract, Species Expert	
Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	1	23	Conduct autecological research on bionomics of <i>A. t. leucopsis</i>	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Palos Verdes blue butterfly (<i>Glaucopsyche lygdamus palosverdesensis</i>)	2	24	Evaluate data and incorporate into long-term management plans	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control	Contract, Species Expert	

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Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	31	Survey potential habitat on the Palos Verdes Peninsula and determine suitability for reintroduction	Ongoing Current	FY 2007		California Coastal Conservancy, City of Palos Verdes Estates, California, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game, United States Air Force	Research: Population Surveys	Contract	This work is incorporated into habitat management by Palos Verdes Peninsula Land Conservancy within the City of Rancho Palos Verdes.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	32	Secure and/or protect selected habitat sites	Ongoing Current	FY 1995 - FY 1999		California Coastal Conservancy, California Coastal Commission, City of Palos Verdes Estates, California, City of Rancho Palos Verdes, California, U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game, United States Air Force	Acquisition: General	Contract, Internal Administrative, Internal Technical Assistance	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	33	Rehabilitate selected coastal sage scrub habitat sites	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Contract, Species Expert	This work is incorporated in habitat management by Palos Verdes Peninsula Land Conservancy within the city of Rancho Palos Verdes
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	34	Obtain PVBB stock for introduction from existing colonies or through captive propagation, if necessary, and introduce into rehabilitated sites	Ongoing Current	FY 2000 - FY 2004		California Department of Fish and Game	Management: Propagation, Management: Reintroduction, Research: Propagation	Contract, Species Expert	Reintroductions were conducted in 2010 but likely failed due to plant community succession.

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Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	35	Establish a captive breeding program, if appropriate, to provide PVBB stock for new habitat sites and augment existing colonies	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Propagation, Management: Reintroduction	Contract, Species Expert	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	351	Determine need for captive breeding facility	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	36	Develop and implement management plans for restored sites	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Management: Reintroduction	Contract	Managemen in Rancho Palos Verdes is occurring but PVB are no longer present. Reintroduction will be necessary.
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	41	Develop suitable survey methods to estimate population numbers, distribution and trends	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Population Surveys	Contract, Species Expert	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	42	Survey PVBB populations and their habitats	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Research: Population Surveys	Contract, Species Expert	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	3	5	Determine number and size of colonies necessary to reclassify PVBB to threatened status and to delist	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	2	6	Increase public awareness of PVBB through education and information programs	Ongoing Current	FY 1995 - FY 1999		City of Palos Verdes Estates, California, City of Rancho Palos Verdes, California, California Department of Fish and Game, United States Air Force	Other: Administration, Other: Information and Education	Internal Administrative, Internal Technical Assistance, Species Expert	

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Palos Verdes blue butterfly (Glaucopsyche lygdamus palosverdesensis)	1	7	Utilize laws and regulations to protect PVBB	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Law Enforcement Division, California Department of Fish and Game	Management: Land Use, Management: Other, Management: Planning, Other: Administration, Other: Law Enforcement, Other: Regulations	Contract, Internal Administrative, Internal Field Assistance, Internal Technical Assistance	